Carnegie Mellon Heinzcollege

Master of Entertainment Industry Management

Course	What Makes us Play: The Craft of the Video Game					
Information	Course Number: 93-860 Semester Credit Hours: 4, Class Meetings, 4:					
	Sat. 3/23 at 10am, Sat. 3/30 at 10am, Sat. 4/13 at 2:30pm, and Sat. 4/27 at 2:30pm					
	Instructor: Chervl Platz <chervl@ideaplatz.com></chervl@ideaplatz.com>					
Description	Games have existed for almost as long as humans have walked the earth, but the video gaming industry has emerged as an economic powerhouse in recent decades. The ability to create and manipulate digital worlds completely well, changed the game. But what differentiates a successful game from a failure? What draws people to games, and what keeps people coming back? In this short class, students will explore the basics of game design and learn how today's most successful game developers connect a solid game design with the realities of game development in order to captivate and entertain players. This course touches on a wide variety of topics drawn from cognitive psychology, human-computer interaction, visual design, storytelling, software engineering, marketing, and the business world to paint a broad picture of the art and craft of gaming, giving students the basic ability to understand what conditions are necessary for a great game to thrive.					
Learning/ Course	By the end of this course, students should be able to:					
Objectives*	Learning Objective	How Assessed				
	Recognize the fundamental principles of game design	Game Design Craft Quiz (Week 3)				
	and development	Elements of Fun Case Study (Week 4)				
	Understand the difference between traditional and live service games, and how the game design challenges differ for each model Game Design Craft Quiz (Week 3)					
	Connect the game design and production considerations Class discussion					
	Reflect upon the social aspects of gaming including Class discussion					
	multiplayer and online experiences Participation in class gaming					
	experience(s)					
	Evaluate how the game industry defines, approaches, and works with "fun" and player behavior	Elements of Fun Case Study (Week 4)				
Course	Absences/Tardy					
Policies and	We only have a short time together, so please do your best t	o be present and be ready to work.				
Expectations	Should you have any problems, please contact me prior to c	lass.				
	Respect & Safety The games industry is a wide space, but it can sometimes ele Students must always treat each other with respect and appr When engaging in gaming for class or recreation, please be other side are humans. In no way do we condone any "exper behavior. University policies should be followed at all time research.	icit strong or controversial opinions. oach this space as a space of learning. safe & remember that players on the rimentation" with first-person toxic s, even when gaming for academic				

Evaluation*	Student grades will b	e weighted based on the follow	wing evaluatio	n criteria (**see Student				
Method	Deliverables):							
	Class process, parti	cipation and development	40%					
	Game Developmen	t Craft Quiz**	20%					
	Elements of Fun Ca	se Study**	40%					
Student Deliverables	This class includes to delivery element.	vo deliverables that comprise j	part of the stuc	lent's grade. Both have an in-class				
	Deliverable 1: Gan	<u>ne Development Craft Quiz (</u>	Week 3)					
	Deliverable type	Quiz						
	Delivery method In-class (paper)							
	AI allowed?	No						
	Description	DescriptionThis lightweight quiz will check student comprehension on the topics covered in sessions 1 and 2, which encompass the core game developmen portion of the course. There will be a mix of multiple-choice questions fo certain fact-based questions, and a few short open answer questions to ch 						
	Deliverable 2: Eler	nents of Fun Case Study						
	Deliverable type	Presentation deck and live p	resentation					
	Delivery method	d In-class presentation						
		PDF or Slides (document)						
		Essay (document)						
	AI allowed?	Supporting research and generating supporting illustrations only. No use for generating written text in essay.						
	Description	Choose a game. Write a 750 summarizes the elements of game market, and then prepa findings to share in class (20 videos within the time limit few hours gaming and then s - Part 1 of 3: Game I o What game game? Sing the publishe was the gam - Part 2 of 3: Game o Name the to they impact o What is you feel the best o Bonus: Iden opinion. - Part 3 of 3: Moneti the spending you feel tha	-1000-word es fun and the po are a 5-minute 0 slides maxim are acceptable some time prep Basics did you choos le or multiplay r, who is the d ne published? Loop pp 1-2 element the core game r favorite part when playing tify one thing zation nis game make g of money im t you got good	 ssay in APA (3-4 pages) that ssitioning of that game in the summary presentation of your um, animated GIFs or short). You should expect to spend a paring your essay and deck. e, and how is it positioned as a ver? Live service game? Who is leveloper (if separate), and when What platforms does it support? s of fun that are present? How do c loop? of this game? What makes you the game could do better in your e money from players? How does pact the game loop, if at all? Do l value for your money? 				

	Evaluation	Each student submission (written work and 5-minute presentation) will be	
		evaluated on the following:	
		- Game Basics: (15%) Does the presentation reasonably identify <i>this</i>	
		specific game's positioning in the market based on conditions we've	
		discussed?	
		- Game Loon: (35%) Does the presentation reasonably identify one	
		or more core elements of fun that drive this specific game?	
		Monotization (25%) Dogo this procontation reasonably identify	
		- Wolletization . (2570) Does this presentation reasonably identify	
		one of more ways in which the business model <i>impacts the</i>	
		gamepiay experience?	
		- Personal perspective: (25%) Does the presentation reasonably	
		reflect the student's personal perspective based on hands-on	
		gameplay as opposed to an AI powered or repurposed review	
		analysis?	
	Suggested games	If you're new to gaming, here's a starter list of low cost or free-to-play	
		games to choose from. Feel free to select games not on this list, but you may	
		find them less accessible for new players.	
		- The Sims 4 (PC)	
		- TeamFight Tactics (PC / Mobile)	
		- Among Us (PC, Mobile, Console)	
		- Five Nights at Freddy's (PC, Mobile, Console)	
		- Fall Guys (PC, Console)	
		- Hearthstone: Heroes of Warcraft (PC, Mobile)	
		- Genshin Impact (PC, Console, Mobile)	
		- Marvel Mobile Strike Force (Mobile only)	
Suggested	Strongly Recommen	ded (the MEIM library has copies of all of these books)	
Reading			
	A Theory of Fun for	<u>• Game Design</u> by Raph Koster	
	This book is consider	red required reading across the industry for those interested in game design and is	
	an enjoyable illustrate	ed read.	
	Optional Reading		
	The Secret Science of Cames by John Honson		
	Great first-person ac	count of learnings acquired as a games researcher, and how players surprise	
	anne designers with	their behavior and preferences	
	gume designers with	inell behavior and preferences	
	Art of Game Design	: A Book of Lenses by Jesse Schell	
	The go-to textbook fo	r those looking to work in the field of game design or just understand game	
	design more deeply.	Jesse teaches at Carnegie Mellon's Entertainment Technology Center.	
	Design Beyond Devi	ces: Creating Multimodal, Cross-Device Experiences by Cheryl Platz	
	For cross-platform ge	ames (console/PC/mobile), those building game support platforms, or those	
	working in augmented	a/virtual reality, this book will supplement the game design textbooks with a look	
	ai ine numan-comput	er interaction side of the equation necessary for success.	

Class Participation Rubric	Class participation (which includes your General Attitude, Communication Skills, Organizational Skills and Creativity and Innovativeness) is important in this class because in the real world there are many group dynamics and meetings that will require your input in the room and on your feet—as a writer, producer, agent or executive. The industry is a collaborative medium and in order to be successful you will need to have the ability to think on your feet, present your ideas articulately and succinctly and contribute to group brainstorming sessions. You will also need to give and receive critiques with diplomacy and grace. Our assessment of you will reflect all of these aspects of participation in addition to					to			
			A Grade		B Grade	C Grade		D/R Grade	
	Frequency and Quality		Attends class regularly and <i>always contributes</i> to the discussion by raising thoughtful questions, analyzing relevant issues, building on others' ideas, introducing original ideas, synthesizing across discussions, expanding the class' perspective, and appropriately challenging assumptions and perspectives		Attends class regularly and <i>sometimes</i> <i>contributes</i> to the discussion in the aforementioned ways.	Attends cl regularly t <i>rarely</i> <i>contribute</i> the discuss the aforement ways.	ass out s to sion in ioned	Attends class regularly but <i>never</i> <i>contributes</i> to the discussion in the aforementioned ways.	
Grading Scale*	$\begin{bmatrix} A+ & 99.0-100\% & Exceptional \\ A & 94.0.98.9\% & Excellent \end{bmatrix}$								
	A- 91.0-93.9% Very Good B+ 88.0.90.9% Good								
	B 84.0-87.9% Acceptable D 01.0-22.00/ D								
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
	C C-	74.0-	77.9% 73.9%	Very Min	y Poor imum Passing				
	R	below	w 71 pts (< 71%)	Faili	ing				

Topical Outline	- Class	ncludes 4 sessions, each with a different theme: s 1 - Game Design Essentials (March 23) s 2 - Living Games, from single player to live service (March 30)						
	- Class - Class	 3 - Social Gaming: Creating community at scale (April 13) 4 - Multi-Platform Experiences: Expanding Markets and Mindshare (April 27) 						
	Class 1: Ma	Class 1: March 23 10:00 AM						
	Topic	Game Design Essentials						
	Abstract	What is fun, anyway? We look at some of the most well-respected takes on what makes games worth playing. What game design principles cut across all genres? How do game designers evaluate what fun looks like? How does the human brain influence how we perceive fun in a game? And how do we craft convincing worlds in which						
	Samian	Madula 1. Theorem of Fund (Human mating time for also)						
	Topics	Module 1: Theory of Fun (Human motivations for play) Module 2: Lenses for Game Design (How to approach a game design) Module 3: World Building (Considerations for creating an immersive world)						
	Optional	Understanding Well-Being in Digital Spaces (Sesame Workshop)						
	Context							
	Class 2: Ma	Class 2: March 30 10:00 AM						
	Topic	Living Games, from single player to live service						
	Abstract	So you have a great game loop. Now what? How do you BUILD it, and how do you						
		keep it fun and engaging once you've released it to players? Games are no longer a						
		single CD-ROM burned into time – the advent of the Internet decades ago has created						
		a new reality where games must adapt in real time with the needs of the audience –						
		and the technology. But does every game need to be a live service game and what						
		about all these layoffs? We will explore the basic realities of game development and						
		monetization and how they impact today's game design decisions.						
	Session Topics	 Module 1: Building the Fun (Software Development Roles & Lifecycle) Module 2: The Fun Business (Game Positioning: Traditional v Live Service) Module 3: A Fruitful Game Loop (How the need for \$ drives game design) 						
	Optional	Articles (from provided PDFs):						
	Context	Four Big Takeaways from the Biggest Games of 2023 (Game On)						
		<u>How Influencers Helped Riot Games turn Valorant into a Gen Z Hit</u> (Bloomberg) A \$300 Million Spider-Man 2 Budget, Sony's Future and AAA Unsustainability						
		(Forbes)						
		The Impact of 16,000 Game Industry Layoffs in One Chart (PC Mag)						
		Cyberpunk 2077 Should Not Have Won Best Ongoing Game at the Game Awards						
		(TheGamer)						
		Optional videos:						
		PUBG was great until it wasn't (case study, 20m)						
		League of Legends: Origins (documentary, 1h19m)						
		<u> </u>						

Tonic	Social Gaming: Creating community at scale
Abstract	Many games in this generation have some form of multiplayer element, and it almost seems to be a requirement for AAA titles. Why is that? What separates a good multiplayer experience from a bad one? Creating a thriving multiplayer experience is for more than just adding another player to the game, it requires an
	understanding of how humans engage as a collective
Session Topics	Module 1: The Who and Why of Multiplayer (Collaboration and Competition) Module 2: Prosocial Gaming Communities (Game Design, Policies, & Moderation)
	Module 3: Emergent Gameplay (Mods, Hacks, and Community Powered Events)
Evaluation	In-class evaluation: Game Development Craft Quiz (20% of grade)
Optional Context	Disruption and Harms in Gaming framework
Class 4: Anril	27 2:30 PM
Topic	Multi-Platform Experiences: Expanding Markets and Mindshare
Abstract	The consequence of success on a single platform is usually pressure to release on a second platform. This is usually easier said than done unless you're approaching your work with a multi-platform mindset from the beginning. We take a look at th current players in the hardware and software landscape in gaming, and how these can influence your game design choices. What are the popular game engines, and how do they make it easy or hard to develop on different platforms? What are the major gaming marketplaces and how do they influence player behavior? And how
a •	do you decide when a new technology like VR or a new console is appropriate?
Session Topics	Module 1: The State of Tech (Game development engines and hardware) Module 3: The State of Humans (Multimodality) Module 4: The State of Platforms (How games, esports, and campaigns get to players)
Deliverables	In-class presentations: Elements of Fun case study (40% of grade)
Optional Context	Chapter excerpts from Design Beyond Devices: - <u>Chapter 7: Spectrum of Multimodality</u> - <u>Chapter 9: Lost in Transition</u> Browse (lightly) example console technical requirements: - <u>Certification Top Failing Test Cases for Console (Xbox)</u> - <u>Original PlayStation 1 Technical Requirements Checklist</u> (PDF)

Plagiarism	Plagiarism and other forms of academic misrepresentation are viewed as extremely serious matters.
and cheating	Misrepresentation of another's work as one's own is widely recognized as among the most serious
notice*	violations. The violation is clearly flagrant when it occurs as plagiarism on a required paper or as
	cheating on an examination, including take-home as well as in class examinations. The punishment
	for such offenses can involve expulsion from the MEIM Program and Heinz School.
	Cheating includes, but is not limited to:
	- Plagiarism (explained below)
	- Submission of work that is not the student's own
	- Submission or use of falsified data
	- Unauthorized access to an exam or assignment
	- Use of a stand-in for an exam
	- Use of unauthorized material in the preparation of an assignment or during an examination
	- Supplying or communicating unauthorized information to another student for use in an
	- assignment or exam
	- Unauthorized collaboration on an assignment. Collaboration must be explicitly permitted by
	an instructor for it to be considered authorized.
	- Submission of the same work for credit in more than one course
	- Plagiarism is the failure to indicate the source of work either with quotation marks or footnotes.
	- The source can be a phrase, a graphic element, a proof, specific language, or an idea derived from
	- the work of another person. Note that material on the web is another person's work and is therefore
	equally subject to the rules on plagfarism and cheating as any other source material.
	Cheating and/or plagiarism on an assignment will result in a failing grade (0 points) for that
	assignment. The assignment in which the cheating occurs will <i>not</i> be excluded from the offending
	student's assignments included
	in grade calculations; thepoints for that essay zero (0) will be factored into the grade.
	Furthermore, the cheating student's final grade will be reduced one full letter grade. A cheating student's fi
	nal grade will be impacted significantly. In addition, cases of cheating and plagiarism will be submitted to a
	nd reviewed by the Dean's Office; more severe penalties may be imposed, up to and
	including expulsion from the Heinz School.
	Academic Dishonesty: Students are expected to maintain the highest ethical standards inside and outside
	the classroom. Cheating on exams and term papers (i.e. plagiarism and unauthorized collaboration) is
	abyiously discouraged and will be treated appropriately. The usual penalty for violations is a failing grade
	for the particular assignment in question: however in some instances such actions may result in a failing
	orade for the course
Artificial	In this class, use of AI will be limited, as it is important to experience some gameplay viscerally to fully
Intelligence	understand the impact of the game mechanics and the cognitive psychology behind fun, even if you do not
Policy:	plan on becoming a gamer yourself.
	You can use ChatGPT and other LLMs to help you learn and explore the vast space of gaming – but you
	may not use these tools to copy and paste or generate first order analysis that you submit as your
	work. In order to develop the "muscle" of game design, you must play and experience these games
	firsthand.
	For case studies, you may not use AI to generate analysis or critique – it must be based on your direct
	gameplay experience, or firsthand research performed by you. Screenshots or snapshots of your gameplay

experience are encouraged, as well as firsthand insights like how you did in a round or what characters you played to help bring the experience to life.
When preparing your final presentation, you may use DALL-E or other generative image AI to produce clip art, but you must always cite when AI is used to generate content of any kind in your assignments.
 In general, you may not use AI to: Generate content that you cut and paste into an assignment with a written component without quotations and a citation Generate content that is not paraphrased without a citation Generate bibliographies for topics that you haven't researched yourself Generate other content (images, video, others) unless expressly permitted and following provided guidance. Otherwise use or present generative AI content that you pass off as your own work, when really it is not
 If you use AI: You must acknowledge the use of AI tools within your work.(APA allows you to cite AI) You should recognize that large language models often provide incorrect information, fake citations, contradictory statements or incorporate plagiarized materials